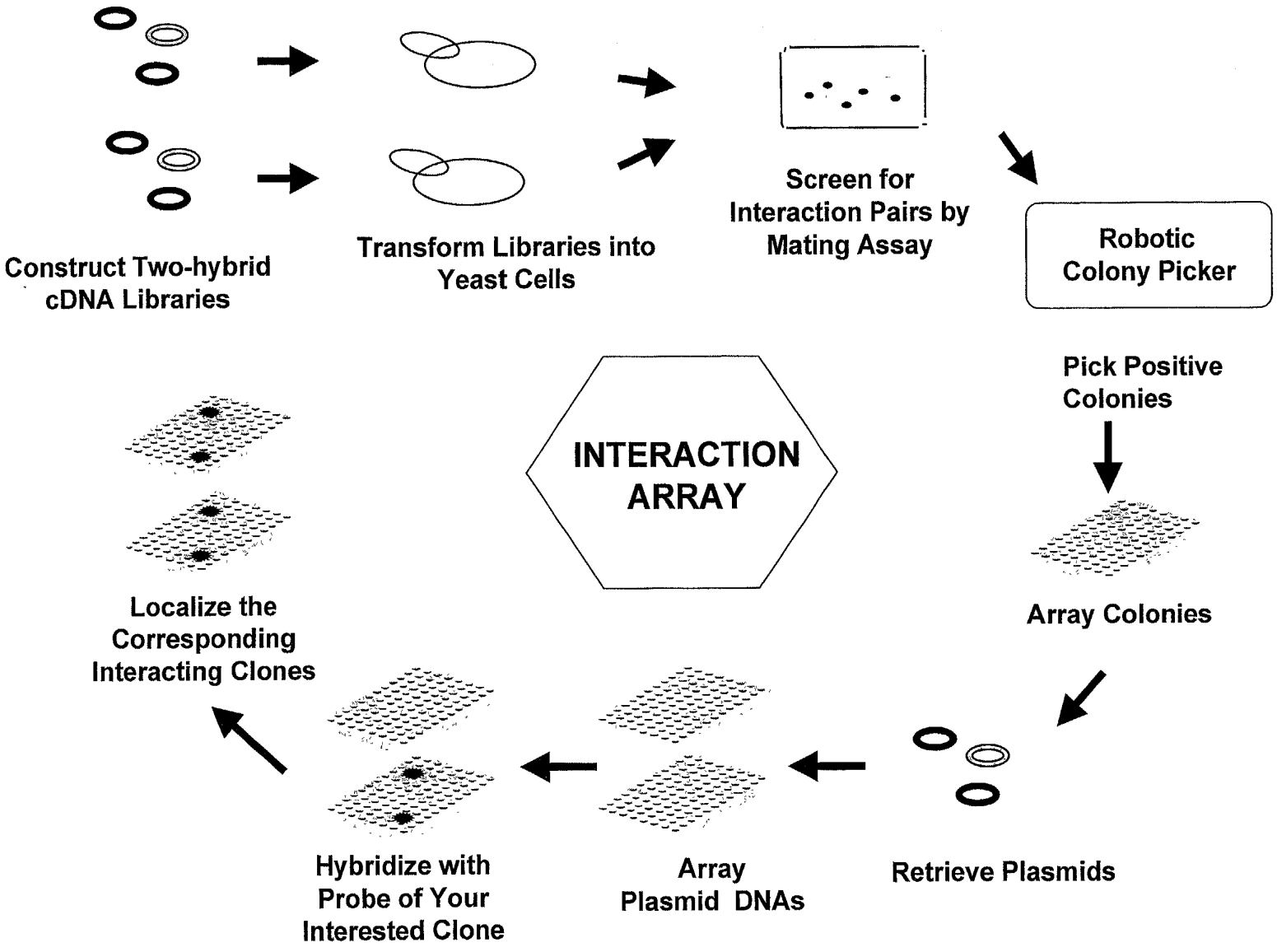

Construct Two-hybrid cDNA Libraries
Transform Libraries into Yeast Cells
Screen for Interaction Pairs by Mating Assay
Robotic Colony Picker
Pick Positive Colonies
Array Colonies
Retrieve Plasmids
Array Plasmid DNAs
Hybridize with Probe of Your Interested Clone
Localize the Corresponding Interacting Clones
INTERACTION ARRAY

Fig. 1

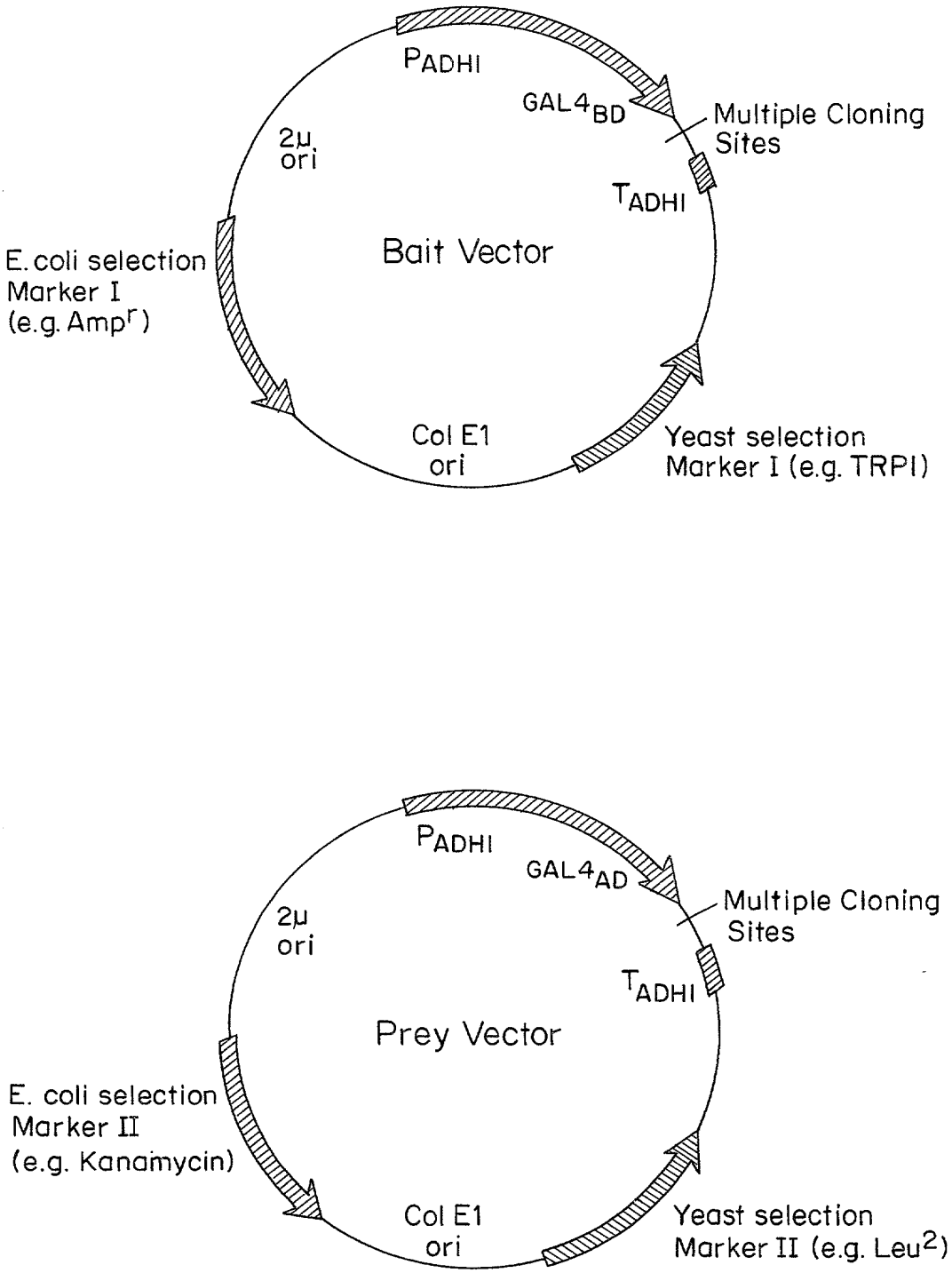

PADHI
GAL4BD
Multiple Cloning Sites
2μ ori
TADHI
Bait Vector
E. coli selection Marker I (e.g. Ampr)
Col E1 ori
Yeast selection Marker I (e.g. TRP1)
PADHI
GAL4AD
Multiple Cloning Sites
2μ ori
TADHI
Prey Vector
E. coli selection Marker II (e.g. Kanamycin)
Col E1 ori
Yeast selection Marker II (e.g. Leu2)

FIG. 2

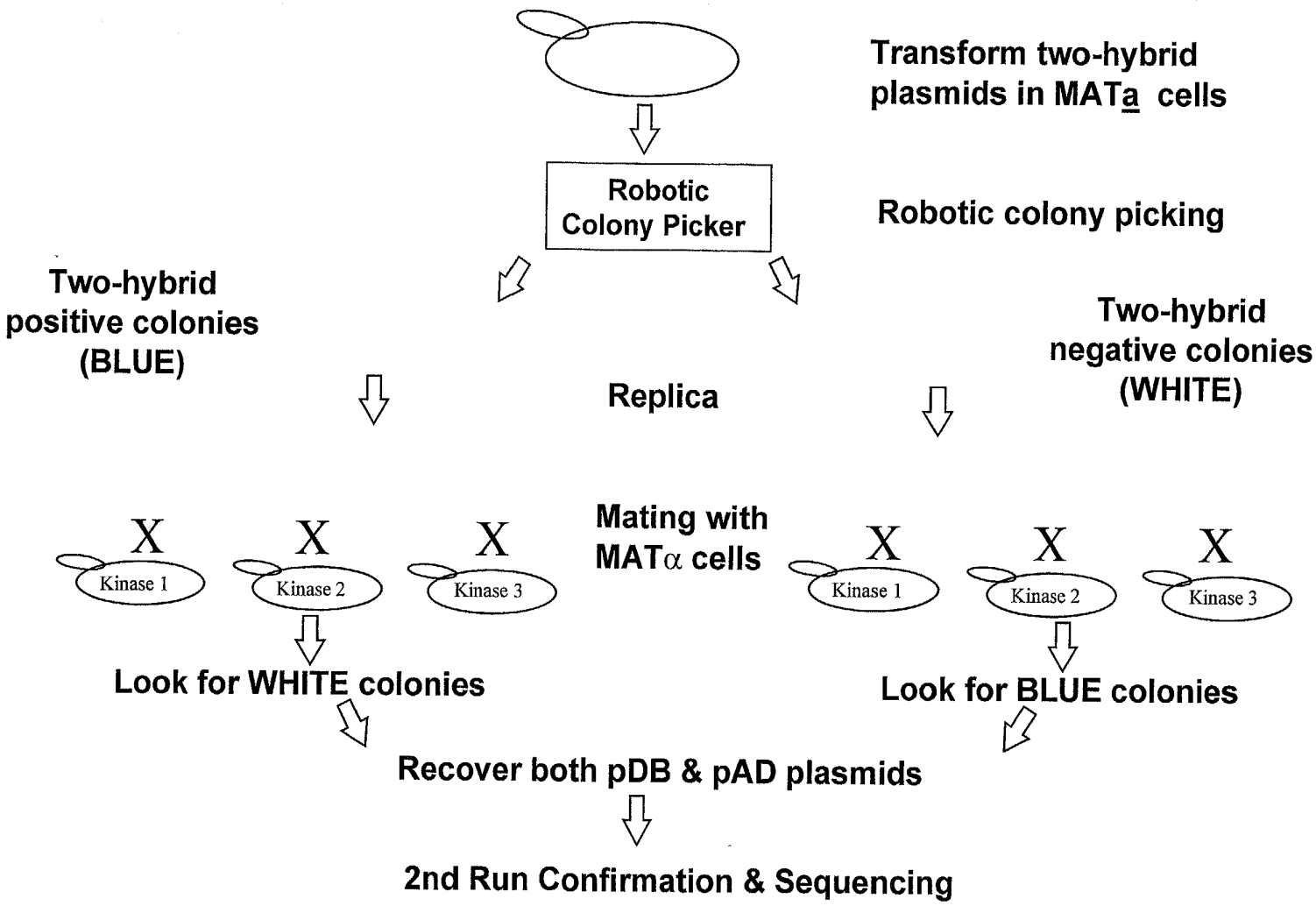

Transform two-hybrid plasmids in MATa cells
Robotic Colony Picker
Robotic colony picking
Two-hybrid positive colonies (BLUE)
Two-hybrid negative colonies (WHITE)
Replica
Mating with MATα cells
X
Kinase 1
X
Kinase 2
X
Kinase 3
X
Kinase 1
X
Kinase 2
X
Kinase 3
Look for WHITE colonies
Look for BLUE colonies
Recover both pDB & pAD plasmids
2nd Run Confirmation & Sequencing

Fig. 3

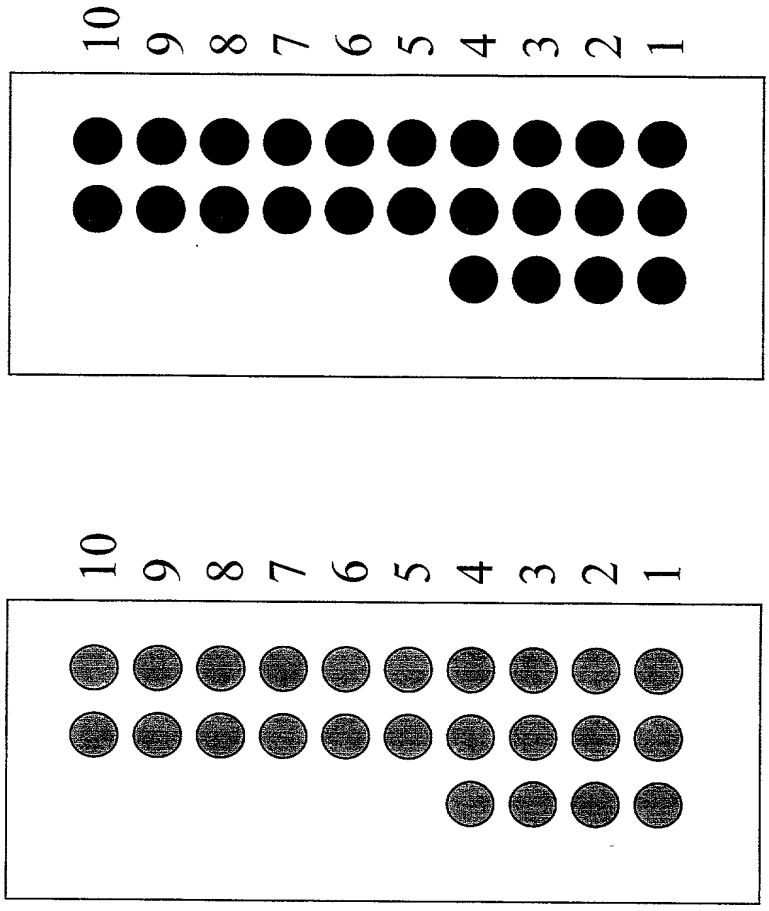


Fig. 4

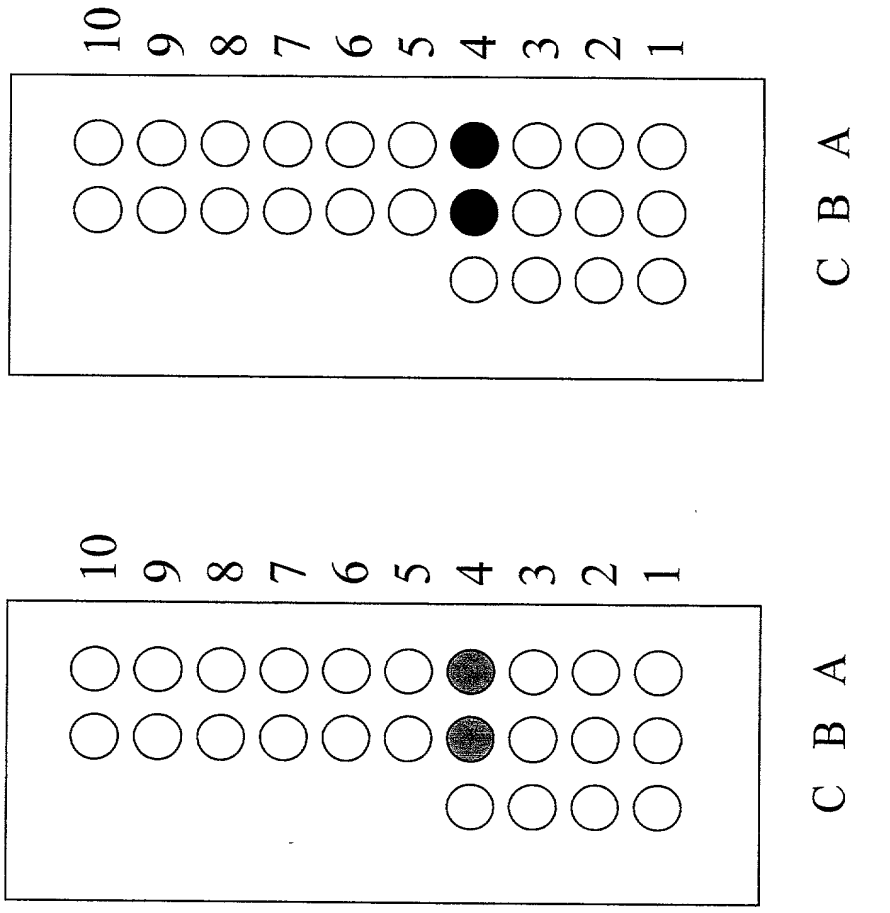


Fig. 5

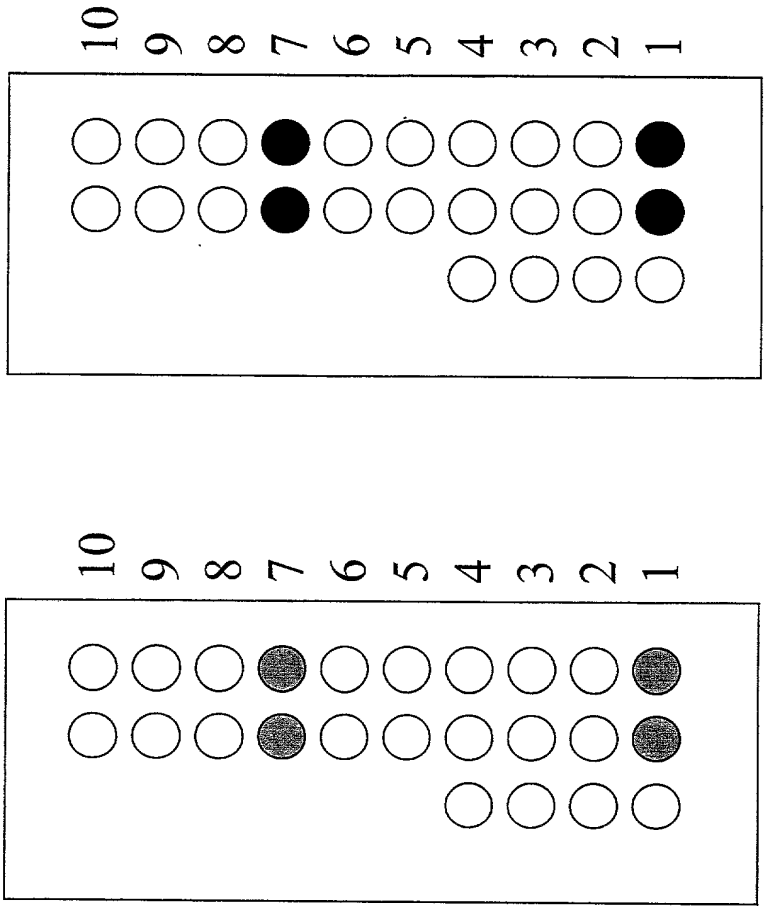


Fig. 6